

## **Institute for Defense Analyses**

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# Mapping Threats to Safeguards

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### **Purpose**

- Need to know how to respond to each threat
- Want to make use of work on riskanalysis
- Not much effort yet



## What We Can Accomplish

- Classification of safeguards (several complementary efforts are represented)
  - Effect on risk
  - Security mechanism used
  - Prevention, detection, recovery
  - Type of threat (confidentiality, integrity, availability, accountability)



### What We Can Accomplish

- How to measure risk
- Achieve balance among
  - IT and non-IT measures
  - Usability and security



#### Issues

- Differences in vocabulary, culture, application domains
- Measurement of cost of safeguard
  - Decreased usefulness
  - Inconvenience and delay
  - System resource use
- Work involved in gathering the information



#### Issues

- Lack of good threat information
  - Probability of attack
  - Resources required to launch attack